

EXHIBIT A

I. Prior Art to Asserted U.S. Patent Nos. 8,069,365 and 8,719,617

A. U.S. Patents

Number	Filing date	Issue date	Named inventors	Original assignee
7,769,374	Mar. 12, 2001	Aug. 3, 2010	Son Phan-Anh Balint Benko Auvo Hartikainen Markku Verkama Heikki Juhani Einola Stefano Faccin	Spyder Navigations LLC
8,571,548	Jan. 21, 2002	Oct. 29, 2013	Mikka Poikselkä Mikael Heerman Jaakko Rajaniemi	Sisvel International S.A.

B. Non-U.S. Patent Application Publications

Country & Number	Filing date	Publication date	Named inventors	Applicant
EP 1 916 821 A1	Oct. 24, 2006	Apr. 30, 2008	Leis, Peter Shen, Jiadong Dr. Wiehe, Ulrich	Nokia Siemens Networks GmbH & Co.

C. Non-Patent Publications

Title	Publication Date	Page Numbers
ETSI TS 123 228 V7.2.0 (2005-12) (3GPP TS 23.228 version 7.2.0 Release 7)	Dec. 7, 2005	All
ETSI TS 129 228 V7.0.0 (2005-12) (3GPP TS 29.228 version 7.0.0 Release 7)	Dec. 23, 2005	All
3G TR 23.821 V1.0.1 (2000-07)	July 24, 2000	All
3GPP TS 24.229 V7.2.0 (2005-12)	Dec. 2005	All

II. Prior Art to Asserted U.S. Patent No. 9,235,462

A. U.S. Patents

Number	Filing date	Issue date	Named inventors	Original assignee
6,785,243	Dec. 1, 2000	Aug. 31, 2004	Fredrik Åberg	Telefonaktiebolaget LM Ericsson
8,531,976	Mar. 7, 2008	Sept. 10, 2013	Jean-Philippe Vasseur Danny Prairie	Cisco Technology, Inc.

B. U.S. Patent Application Publications

Number	Filing date	Publication date	Named inventors
2007/0121647	Aug. 10, 2004	May 31, 2007	Yajuan Wu

C. Non-Patent Publications

Title	Publication Date	Page Numbers
3GPP TS 23.401 V8.1.0 (2008-03)	Mar. 25, 2008	All
3GPP TS 29.274 V0.3.0 (2008-05)	May 16, 2008	All
3GPP TS 23.060 V8.1.0 (2008-06)	June 9, 2008	All
3GPP TS 29.060 V8.4.0 (2008-06)	June 9, 2008	All
3GPP TSG CT WG4 Meeting #38bis C4-080591 Source: Nokia Siemens Networks Title: Pseudo-CR on GTPv2 information element types for S11 interface	Apr. 11, 2008	All
3GPP TSG CT WG4 Meeting #38bis C4-080900 Source: Nokia Siemens Networks Title: Pseudo-CR on GTPv2 information element types for S11 interface	Apr. 11, 2008	All
3GPP TSG SA WG2 Architecture -S2#68 S2-087025 Source: Huawei Title: Discussion on The relationship between TA List and S-GW SA	Oct. 17, 2008	All

3GPP TSG CT WG4 Meeting #42 C4-090262 Source: Huawei Title: Cause IE	Feb. 19, 2009	All
3GPP TSG CT WG4 Meeting #42 C4-090263 CHANGE REQUEST Title: Cause IE	Feb. 19, 2009	All
3GPP TSG-CT 4#42 Draft MEETING REPORT v1.0.0	Feb. 19, 2009	All
Harry Newton, <i>Newton's Telecom Dictionary: The Authoritative Resource for Telecommunications, Networking, the Internet and Information Technology</i> (18th ed. 2002)	2002	All
IEEE Computer Society, <i>IEEE Standard Glossary of Computer Networking Terminology</i> , IEEE Std 610.7-1995 (1995)	1995	All
<i>Microsoft Computer Dictionary</i> (5th ed. 2002)	2002	All
3G TS 29.060 V3.0.0 (1999-05) (3G TS 29.060 version 3.0.0)	May 1999	All
ETSI TS 132 111-1 V3.2.0 (2000-09) (3GPP TS 32.111-1 version 3.2.0 Release 1999)	Sept. 2000	All

D. Persons with Knowledge of Prior Art

Name	Contact Information
Eckhard Papproth	Contact through counsel for NSN

III. Prior Art to Asserted U.S. Patent No. 8,867,339

A. U.S. Patent Application Publications

Number	Filing date	Publication date	Named inventors
2002/0006114	July 11, 2001	Jan. 17, 2002	Frode Bjelland Juan-Antonio Ibanez

2010/0046362	Aug. 10, 2007	Feb. 25, 2010	Jinguo Zhu Jiannan Cai Xiliang Liu
2005/0172012	Feb. 2, 2004	Aug. 4, 2008	Alessio Casati

B. Non-Patent Publications

Title	Publication Date	Page Numbers
3GPP TSG SA WG2 Architecture - S2#53 S2-062308 Source: Ericsson Title: Impacts to Functions and Characteristics	June 20, 2006	All
3GPP TSG SA WG2 Architecture - S2#52 S2-061417 Source: Nokia Title: SGSN controlled bearer optimisation; impacts to nodes and interfaces	May 2, 2006	All
3GPP TS 23.060 V7.1.0 (2006-06)	June 8, 2006	All
3GPP TR 23.873 V4.0.0 (2001-03)	Apr. 10, 2001	All
3GPP TR 23.809 V0.3.0 (2006-07)	July 2006	All
3GPP TS 23.060 V3.1.0 (1999-10)	Oct. 1999	All
3GPP TSG-SA WG2#12 S2-372 Source: Motorola Title: Separation of Control and Bearer Signalling in the Packet Domain in the Reference Architecture in TR 23.821	Mar. 9, 2000	All
3GPP TSG SA WG2 Architecture - S2#50 S2-060238 Source: Nokia, Nortel, Vodafone Title: Proposal for a new WID on One Tunnel	Jan. 20, 2006	All
3GPP TSG SA WG2 Architecture - S2#50 S2-060239 Source: Nokia, Nortel, Vodafone	Jan. 20, 2006	All

Title	Publication Date	Page Numbers
Title: WID on One Tunnel solution for Optimisation of Packet Data Traffic		
3GPP TSG SA WG2 Architecture- S2#50 S2-060315 Source: Nokia, Nortel, Vodafone, Ericsson Title: WID on One Tunnel solution for Optimisation of Packet Data Traffic	Jan. 20, 2006	All
3GPP TSG SA WG2 Architecture - S2#51 S2-060685 Source: Nokia Title: Skeleton and scope for One Tunnel TR 23.8xx	Feb. 17, 2006	All
3GPP TSG SA WG2 Architecture - S2#52 Report of SA WG2 meeting #52	May 12, 2006	All
3GPP TSG SA WG2 Architecture - S2#52 S2-061813 Source: Nokia, Nortel, Ericsson Title: Impacts to 3G functions, nodes and interfaces	May 12, 2006	All
3GPP TR 23.809 V0.2.0 (2006-05)	May 2006	All
3GPP TSG SA WG2 Architecture - S2#53 S2-062200 Source: Nokia Title: SGSN controlled bearer optimisation; updates on clause 6	June 30, 2006	All
3GPP TSG SA WG2 Architecture - S2#54 S2-062756 Source: Huawei Title: One Solution to Error Indication for SGSN controlled bearer optimisation	Sept. 1, 2006	All
3GPP TSG SA WG2 Architecture - S2#54 S2-062862 Source: ZTE Corporation Title: Error Indication in OTS	Sept. 1, 2006	All
3GPP TSG SA WG2 Architecture - S2#54 S2-063365	Sept. 1, 2006	All

Title	Publication Date	Page Numbers
Source: ZTE, Huawei Title: One Solution to Error Indication for SGSN controlled bearer optimisation		
3GPP TR 23.809 V0.4.0 (2006-09)	Sept. 2006	All
3GPP TSG SA WG2 Architecture - S2#54 Report of SA WG2 meeting #54	Sept. 1, 2006	All
3GPP Technical Specification Group Services and System Aspects Draft Report of meeting #33	Sept. 28, 2006	All
3GPP TSG SA WG2 meeting #55 Draft Report of SA WG2 meeting #55	Oct. 27, 2006	All
3GPP TSG-SA2 Meeting #55 S2-063564 CHANGE REQUEST Title: Direct Tunnel functionality	Oct. 27, 2006	All
3GPP TSG-SA2 Meeting #55 S2-063918 CHANGE REQUEST Title: Direct Tunnel functionality	Oct. 27, 2006	All
3GPP TSG-SA2 Meeting #55 S2-063983 CHANGE REQUEST Title: Direct Tunnel functionality	Oct. 27, 2006	All
3GPP TSG-SA2 Meeting #55 S2-064045 CHANGE REQUEST Title: Direct Tunnel functionality	Oct. 27, 2006	All
3GPP TSG-SA2 Meeting #55 S2-064087 CHANGE REQUEST Title: Direct Tunnel functionality	Oct. 27, 2006	All
3GPP TSG-SA2 Meeting #55 S2-064131	Oct. 27, 2006	All

Title	Publication Date	Page Numbers
CHANGE REQUEST Title: Direct Tunnel functionality		
3GPP TSG-SA2 Meeting #55 S2-064134 CHANGE REQUEST Title: Direct Tunnel functionality	Oct. 27, 2006	All
3GPP TSG-SA WG2 Draft Report of SA WG2 meeting #56	Jan. 19, 2007	All
3GPP SA WG2 Architecture - S2#56 S2-070066 CHANGE REQUEST Title: Direct Tunnel functionality – RNC failure	Jan. 19, 2007	All
3GPP SA WG2 Architecture - S2#56 S2-070333 CHANGE REQUEST Title: Direct Tunnel functionality – RNC failure	Jan. 19, 2007	All
3GPP SA WG2 Architecture - S2#56 S2-070561 CHANGE REQUEST Title: Direct Tunnel functionality – RNC failure	Jan. 19, 2007	All
3GPP SA WG2 Architecture - S2#56 S2-070602 CHANGE REQUEST Title: Direct Tunnel functionality – RNC failure	Jan. 19, 2007	All
3GPP SA WG2 Architecture - S2#56 S2-070613 CHANGE REQUEST Title: Direct Tunnel functionality – RNC failure	Jan. 19, 2007	All
3GPP TSG SA WG2 Architecture - S2#56b Rel-8 Ad-hoc S2-070956 CHANGE REQUEST	Feb. 15, 2007	All

Title	Publication Date	Page Numbers
Title: Direct Tunnel functionality – RNC failure		
3GPP TSG SA WG2 Architecture - S2#56b Rel-8 Ad-hoc S2-070955 One Tunnel Drafting Group Report	Feb. 15, 2007	All
3GPP TS 23.060 V7.4.0 (2007-03)	Mar. 2007	All

C. Persons with Knowledge of Prior Art

Name	Contact Information
Hans Ronneke	Contact through counsel for Ericsson
Gunner Rydnell	Contact through counsel for Ericsson
Antii Pasanen	Contact through counsel for NSN